GOVERNMENT OF MADRAS. Sectt. II-16—55,000—3-9-55.

Public (RDP VI) (1954) Department.

23.8
(13) 55
Passed
Supdt
In
3598

Endorsement
~~D.O.~~
Memorandum
~~Lodged~~

No. 64676 RDP VI/54-2.

Dated 24 — 8 — 1954

FURTHER PAPERS.

Department.	Number.	Series.	Date.
Public (RDP)	3726 RDP VI/55-2	Memorandum	1-7-1955

"HIGHWAYS DEPARTMENT"

From
Sri K.K. Nambiar, B.E., M.I.E.(Ind),
F.Inst.H.E.(Eng) M.I.Mun.E.(Eng),
M.Am.Soc.C.E.,
Chief Engineer (Highways),
Chepauk, Madras-5.

To
The Secretary to Government,
Agricultural Department,
Fort St. George,
Madras.9.

-x-x-x

Specification Report to accompany the estimate for constructing a submercible bridge across Gowri river in Mile 11/1 of Ariadka Nethicalcutta Road.

Estimate amount Rs.30,000/-.

NECESSITY.

Ariadka - Nethicalcutta road is a Major District Road connecting the two important roads - viz. Darbacubramanya road in one side and Mangalore-Mercara road on the other side. It also connects many of the important village roads like Sonagini - Ainakatta road, Bellare-Bangamalle road which pass through the heart of Malnad and which are proposed for improvement under Firka-Development scheme. Most of the traffic bound for Subramanya pass through this road only. The Kulgunda cattle fare and Subramanya festival draw lot of visotors, pilgrims etc. At present, there is no vehicular traffic beyond Bellare during rainly season because of this unbridged river, and once this bridge is constructed vehicles can go upto Panja throughout the year. Hence the construction of a bridge across this river will be one step in the direction of meeting a long felt need of the people of Malnad.

SITE Borings taken at the proposed site, 200'-0" downstream of the present crossing, reveal that rock is available at 4'-6" to 5'-0" below bed level. Moreover this alignment will straighten the road.

HYDRAULIC PARTICULARS

The ordinary flood and low water levels at site are 73.50 and 68.00 respectively. Under ordinary flood conditions, there will, be about 6'-0" of water, with a surface velocity of12'/sec. A low level causeway is considered unsuitable for crossing a such swift stream. The other alternatives are a high level bridge and a submercible bridge. It is proposed to have a submercible bridge since the cost of a high level bridge will be heavy, and the importance of the road is not so great as to demand an all weather crossing. At the same time a submercible bridge will not affect the traffic requirements, too seriously as the duration of interruption will be only for a few days in a year. Hence a submercible bridge is proposed to this river.

DETAILS OF THE BRIDGE:

The Bridge will have 6 spans of 12' each with 2'-0" piers, with a clear road way of 22'-0".

All the piers and abutments will have open foundations taken to rock and these will be founded over a levelling course of cement concrete 1:3:6 thick.

The piers will be of coursed rubble masonry I sort in cement mortar, 1:5 and the abutments and wings in course of rubble masonry, II sort in cement Mortar 1:5. A levelling course of 0'-6" thickness with cement concrete 1:2:4 using ¾" granite metal is provided over all the piers and abutments to provide seating for the deck slab.

The decking will be of reinforced concrete slab. (1:2:4 mix) 12.5" thick, continuous over three spans. The wearing coat over the deck slab will be of cement of concrete (1:1½:3 mix) 4" thick at the centre and 2" at the edges giving a side slope of 1 in 66. The bottom of the deck slab will be at 74.00.

R.C. perforated kerbs will be provided on either side of the roadway. Provision is also made for R.C. diamond shaped guide posts (9"x6" size) at 14' centre to centre with chains.

In view of the high velocity under submerged conditions, the triangular cutwaters will have a front batter of 1 in 4; Dowel bars connecting the bed rock to masonry are also provided.

LUMPSUM PROVISIONS:

Suitable lumpsum provisions are made in the estimate for forming approach roads, land acquisition, baling out water and for protective works.

The work will be carried out as per MDSS and other relevant specification and circulars issued.

D.P. Nanavati 13.5.54

for Chief Engineer (Highways)

Estimate - Abstract of Estimate.

7

Constructing a submercible Bridge across Gowri River in 11/1 of Ariadka-Netticulcutta Road.

Quantity	Description of work	Rate	per	Amount.
1	2	3	4	5
L.S.	Earthwork in foundation including benching rock			1500-0-0
500 cft.	Cement concrete 1:3:6 with 1½" IRCc hard granite jelly for foundation including coast and conveyance of all materials.	135-0-0	100 cft.	675 ~~2512~~-0-0
2450 cft	Coursed rubble masonry II sort in C.M. 1:5 including cost of conveyance of all materials for abutments and wings	102-8-0	100 cft	2512-0-0
2450 cft	Coursed rubble masonry I sort in C.M. 1:5 including cost of conveyance of all materials for Piers	112-4-0	100 cft	2751-0-0
150 cft	Cement concrete 1:2:4 using 3/4" metal for levelling course	188-0-0	100 cft	282-0-0
2125 cft	On pier and abutments reinforced cement concrete 1:2:4 with 3/4" B.S.S. hard granite chips and 6.7 lbs of steel/cft of concrete for deck slabs including cost and conveyance of all materials.	4-8-0	cft	9563-0-0
168 Rft	R.C. Perforated kerbs with 22.06 lbs of steel per cft.	2-0-0	rft	336-0-0
475 cft	Cement concrete 1:1½:3 with 66 2/3% 1" size metal and 33 1/3% 3/4" size metal including all leads and cost of materials for wearing coat	236-0-0	100 cft	1121-0-0
L.S.	R.C. diamond shaped guide posts with chain	L.S.		500-0-0
L.S.	Rough stone dry packing for revetment			1000-0-0
70	1½" Dowel bars including cost and fixing			2000-0-0
L.S.	Baling out water	L.S.		1500-0-0
L.S.	Land acquisition	L.S.		1000-0-0
L.S.	Forming approach roads	L-S.		3000-0-0
L.S.	Petty supervision charges	L.S.&		1500-0-0
L.S.	Contingencies	L.S.		760-0-0
				30000-0-0

(Rupees thirty thousand only).

E.P. Narayanan 13-5-54
for Chief Engineer (Highways)

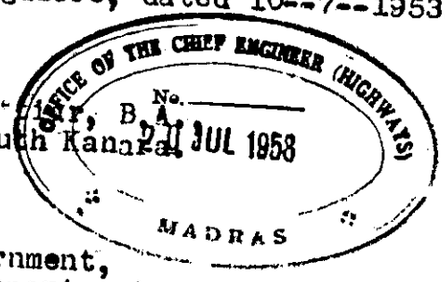
Ref.B7.9812/53.

S.Kanara Collector's Office,
Mangalore, dated 10--7--1953.

From

41372

Sri A. Mahalingam Che[illegible]r, B.A.,
Collector of South Kanara.



To

The Secretary to Government,
Rural Welfare Department,
Fort St.George,
MADRAS-9.

Through

The Chief Engineer (H)
MADRAS.

Sir,

RURAL RECONSTRUCTION -- South Kanara District -- Sullia Firka -- Communication works -Construction of a submerssible bridge across Gowri River in Sullia Firka -- Estimate -- Sanction -- Requested

--:o:--

Ref:-R.C.D4.1307/53 dated 17.3.53 from the Divisional Engineer Highways South Kanara Mangalore.

--:o:--

I enclose a copy of the report cited from the Divisional Engineer, Highways, South Kanara Mangalore with an estimate in duplicate for Rs.(22,000/-) twenty two thousand only for constructing a submerssible bridge across Gowri river in Sullia Firka. The need for the speedy construction of the bridge has been emphasized in the specification report accompanying the estimate.

The balance of allotment now available is Rs.38,800/- In this case a sum of Rs.5500/- i.e. 25% of the estimate is collectable from the villagers as contributions out of this a sum of Rs.1000/- has already been collected and efforts to collect the balance are being made by the Rural Welfare Officer, Mangalore.

The work has been included in the coordinated plan and it is item No.3 under "culverts bridges and causeways" at page 9 of the printed copy of the coordinated plan of Sullia Firka.

In the circumstances I request that the Government may be pleased to sanction the estimate and accord administrative approval of for the execution of the work.

Yours faithfully

For Collector. 14.7.53

sr/13-7

Agri. D.VI.

Memo No.64676 D.VI/54-1 d. 9.6.54

Sub: Communications - S.Kanara dt. Sullia firka - Construction of a sub-mersible bridge across the Gowri river.

Ref: From the C.E.(H) Madras, Lr.41372-C4-53-8 dt.11-5-54.

The Collr of S.Kanara in his lr.No.B7.9812/53 d.10-7-53 submitted proposals through the C.E.(H) for constructing a submersible bridge across Gowri river in Sullia firka at an estimated cost of Rs.22,000/-. The C.E. (H) has recast the estimate and the modified estimate works out to Rs.30,000/- . The C.E. has remarked that the work in question has not been included in the recast 5 year programme of P.W.R.D. Since the R.W. Scheme has now been merged with the N.E.S. the work will have to be executed under N.E.S.Scheme. The Collr is therefore requested to state if there is provision in the budget for the work in the allotment of the Dist. under N.E.S.

To the Collr of S.Kanara.

Copy to C.E.(H).

D.Dis.15031/54. S.Kanara Collector's Office,
Mangalore dated 16--6--54.

From

Sri V.Seetharama Serval, B.A.,
Collector of South Kanara.

To

The Secretary to Government,
Agriculture Department,
Fort St.George,
Madras-9.

Sir,

Communications

~~COMMUNICATIONS~~ - South Kanara - [illegible] Sullia Firka Construction of a submersible bridge across Gowri River -Taking up under N.E.S. - Report.

Ref:-Government Memo.No.64676/D/VI/54-1 dated 9.6.54.

The recast estimate in respect of the submersible bridge across the Gowri river comes to Rs.30,000/-. The allotment made for 'Village Communications' in the current years budget is only Rs.17,850/- please see Government Memo.No. 46966/D/VII/54-2 dated 26.5.54. Even if the work is to be completed in a period of two years a sum of Rs.11,250/- (~~excluding~~ inclusive local contributions) will be required for the current year and for the next year. It is not considered advisable to take up the bridge work under N.E.S.scheme at the expense numerous other minor works which are awaiting sanction. This work has not also been included in the Integrated plan for the Sullia Block. I therefore request that this bridge work, which is a vitally important one, may be specially included in the Post War Road Development Scheme. If this is not possible and the work has to be taken up under N.E.S.scheme, necessary additional allotment may be sanctioned under Village communications

FIRST ASSISTANT SECRETARY
19 JUN 1954
AGRICULTURE DEPARTMENT

Yours faithfully

For Collector

Copy to the Divisional Engineer (H) Mangalore.
Copy to the Block Development Officer Sullia.
pr/17-6

D.Dis.15031/54.

V.Seetharama Serval, B.A.,
Collector of South Kanara.

The Secretary to Government,
Agricultural Department,
Fort St.George,
Madras-9.

Sir,

Communications
~~COMMUNICATIONS~~ - South Kanara District -Sullia Firka
Construction of a submersible bridge across Gowri
River -Taking up under N.E.S. - Report.

Ref:-Government Memo.No.64676/D/VI/54-1 dated 9.6.54.

The recast estimate in respect of the submersible bridge across the Gowri river comes to Rs.30,000/-. The allotment made for 'Village Communications' in the current years budget is only Rs.17,850/- please see Government Memo.No. 46966/D/VII/54-2 dated 26.5.54. Even if the work is to be completed in a period of two years a sum of Rs.11,250/- (~~excluding~~ inclusive local contributions) will be required for the current year and for the next year. It is not considered advisable to take up the bridge work under N.E.S.scheme at the expense of numerous other minor works which are awaiting sanction. This work has not also been included in the Integrated plan for the Sullia Block. I therefore request that this bridge work, which is a vitally important one, may be specially included in the Post War Road Development Scheme. If this is not possible and the work has to be taken up under N.E.S.scheme, necessary additional allotment may be sanctioned under Village communications."

Yours faithfully

For Collector.

Copy to the Divisional Engineer (H) Mangalore.
Copy to the Block Development Officer Sullia.
sr/17-6

Pre-cm 64626

DIRECTOR OF COMMUNITY PROJECTS & EX-OFFICIO
28 JUN 1954
AGRI. E

Ref.C.No.1061/54-A

Block Development Office
Sullia, Dated 23.6.1954

From
Sri.K.M.Babu Shetty.
Block Development Officer.
Sullia.

To
The Collector of South Kanara.
Mangalore.

88711
DIRECTOR OF EX-OFFICIO
28 JUN 1954
AGRICULTURE DEPARTMENT

NATIONAL EXTENSION SERVICE--Sullia Block-Communications
Construction of a submersible bridge across gowri river-Taking up under National Extension Service.

Ref:- 1) Collr's D.Dis.10550/54 dated 24.5.54
2) " D.Dis.15031/54 dated 16.6.54

*****

I invite kind attention to the integrated plan submitted by me. A careful perusal of the plan will show that the construction of a causeway far Gowri Hole in Bellare village has been included in the integrated plan for Sullia Block and that the Villagers have promised a cash contribution of Rs.6000/- for the purpose. The District Board South Kanara, has also been addressed to contribute towards this scheme. It may be remembered that Sullia Block is cut off into two in the rainy season and out of 33 villages only five villages can be approached by vehicles, during the monsoon ie., from the beginning of June to the end of November. All the other 28 villages are unapproachable during the monsoon period. So As the communications are at a standstill, no useful work can be turned out in other directions also. It is to get rid of this difficulty it was proposed by the District Rural Welfare Committee that priority should be given to communication works and the allotment under Rural Water Supply should be diverted to communications. The resolution may be perused in the files available in the Collector's office as there are no such files here. The resolution was passed in October or November 1952 at Sullia and approved by the Government. As a result, careful investigation of the communication problem of the firka was undertaken and construction of a number of causeways and bridges was decided upon. The Collector sanctioned discretionary grants to the students of the Plytechnic, Mangalore for site investigation under the supervision of the ~~District~~ Divisional Engineer (High Ways) and as a result these causeway estimates were prepared. Nine estimates have already been sanctioned and progressing . If all the investigated works are completed including the causeway across Gowri Hole, the communication problems will be solved to a great extent as thirty out of the thirty three villages will be approachable during the monsoon. But to achieve this, Gowri Hole causeway is the main work as otherwise one part of the firka will not be approachable at all. Hence as per personal instructions of the then Collector ~~the~~ Committee was constituted to collect contributions for this work ~~and was recommended by the Collector for sanctioning~~. The Committee has already collected nearly Rs.2000/- . If this is not taken up at this stage, there will not only be disappointment among the villagers but taking up other minor works under Communications will be of no use as the problem of Communications, will remain as before without yielding any results for the money spent. A visit to the firka now or before the end of the monsoon as well as referring the matter to the Divisional Engineer(H) will convince the Collector about the strength of this argument. It is for this purpose that a sum of Rs.90,000/- out of the total of Rs.1,50,000/- has been provided for communications under the schematic budget submitted already. The matterwas also brought to thenotice of the Hon.Minister for Agriculture on 21.5.54 when he convened a conference at Kasargode and discussed the details ~~and~~ He had instructed that as far as Sullia Block was concerned the Collector can examine the feasibility of taking up of water supply works under the Rural Water

Supply grants of the regular department. If necess. ry a reference may be made to the Government in the matter. In ~~x~~ this year the Collector has been permitted to transfer allotments from one head to the other. As the main item of expenditure will be under communications it will be necessary to divert funds as submitted in the schematic budget already. Hence I request the Collector to reconsider the recommendations made in D.Dis.15031/54 dated 16.6.54 and request the ~~xxx~~ Government to sanction the work under the National Extension Scheme.

Yours faithfully

Block Development Officer.

HRS 24.6.

Copy submitted to the Director of Rural Welfare Madras.

19

Sub (RDP VI)

Issued 24/8

Memo No. 64676 - RDP VI/54-2 dated 24-8-54

Sub: Communications - S. Kanara Dt - Sullia Link - construction of a submersible bridge across Gauri River

Ref: From the Coll. of S. Kanara No. 15031/54 dated 16.6.54

The Collector of S. Kanara is requested to send proposals to include the work of construction of the submersible bridge across the Gauri River, if to be done in the H.E.A. Dept., through the C.E (H). This work need not be taken up under the N.E.S.

24/8/54

CENTRAL DESPATCH BRANCH

Van. / Post. ✓

Despatched by Regd. Post. / Messenger.

Date 26/8/1954. Despatcher's Initials.

To

The Coll. of S. Kanara

Copy to the CE(H) w.r.t his No 4/372-Cy-53-8.d 11.5.54

& the D.D.O. Sullia, S.K. Dt.

SF - III

Note file

Agri DVI

Subject: Communications — construction of a submersible Bridge across Gowri River in Mile 11/1-0 Hariadka, S.K. Dt.

Ref: From the CE. (H) No 41372-Cy-53-8 dated 11-5-54

Please see the f.; in which the CE (H) has technically approved an estimate for Rs. 30,000- for the construction of a submersible bridge across the Gowri river. It is not known, how the expenditure is to be met. The C.E. states that the work is not included in the recast 5 year programme of Pub. Wks Road Dept. This cannot be taken up under the N.E.S. or CP. May be forwarded to P.W.D for necessary action

M 2/6/54.

The Collector's letter on p. 9 c.t. dated 10.7.1953 was written prior to the launching of the N.E.S. on 2-10-'53 in which the R.W. Scheme was merged. The Collr had intended that the work should be executed under the R.W. Scheme. As this Scheme has since been merged with the N.E.S. the work will have to be presumably executed under the N.E.S. This may be got confirmed

64676/54

from the Collr and bunders action taken in this Deptt in the matter. DVI

Ujm. 3-6-54 - For orders if the Collector may be asked to state the Budget provision to DVI for this work

4/6/54 6/6/54

A draft memo is put up below for approval. Draft received

7.6.54 7/6/54 9/6/54

Issued as Memo no 64676/Ste-1 dt 9-6-54 P11 Cf
from the B.D.O. Sullia in his Rc No. 1061/54-A dt 23/6/54 PP 13-14 Cf

Please see the copy of the ref. from the B.D.O. Sullia at PP13-14 Cf addressed to the collector. The collector's ~~report on the ref and~~ reply to the memo on p.11 Cf may be awaited till 9-7-54

29.6.54 30/6/54 7/7/54

From the Collr of S. Kanara

D.Dis. 15031/54 dt 16.6.54 PP 15-18 Cf

Please see the letter from the Collector of S. Kanara at p.15 Cf. He has reported that the work cannot be taken up under the N.E.S. unless additional funds are

allotted But he has not indicated the actual expenditure involved in the Construction of this bridge exclusive of people's Contribution. ~~He may therefore be asked to state the exact amount set apart for or proposed to be spent on local works in the Sullia Block, the expenditure so far incurred and the balance whether there is any programme of work to be incurred against the remaining allotment.~~

~~The C.E. H may also be asked to state whether the work cannot be included under the Post war Road development Scheme, as suggested by the Collector.~~

~~A draft memo is put up for Approval~~

S.V. 16-8-54

With the small allotment of Rs. 17,850 under Communications for the District for 54-55, this work costing Rs. 30,000 may not be possible to be taken up under the N.E.S. But under local works, a sum of Rs. 1,50,000 is ~~allotted~~ available for each N.E.S. Block. There being two blocks in the Dt., the total amount available for such works is Rs. 3.0 lakhs. If the work is considered important the amount required may be met from the total grant for the blocks. ~~If~~ If it is considered not necessary to include this work under N.E.S., ~~P.W.D.~~ may be requested to include this under the Post War Road Devl. Scheme, as a special

P.4

as suggested by the Collector.

Case. For orders.

17/8/54

18/8/54

DS

The Coll may be informed as M on p 15 of and on p 3 above

20.8.54

A draft memo to the Collector of South Kanara is subd.

24/8/54

24/8/54

Issued as Memo No. 64676 Public RDP VI/54-2 DS 24/8/1954